the axis 3 of the angle transmitter 2 and hangs in free downwardly suspension from the fastening point. The position of the sensor element 1 is continuously changed along with the changes taking place in the concentrate flow 13. The angle transmitter 2 registers the changes in the sensor element 1 as a turn β of the horizontal axis 3, and transmits the information of the change to the display 7 and/or to the control system 6 of the flotation cell. The arrangement according to the invention is particularly well suited to observing changes in the relative flowing of concentrate. In a preferred embodiment, the angle transmitter 2 used as the measuring device is a potentiometer, the output current whereof is changed as the position of the sensor element 1 changes. The measuring device is calibrated to level zero when the sensor element 1 hangs in a vertical position. In a typical situation, the strengthening of the flow 13 is observed for instance as a change in the position of the sensor element 1 in percentages with respect to the zero level.

In the Claims:

Claims 1, 2 and 10-16, cancel.

Add new claims as follows:

17. (New) A flotation cell including a structure defining an outlet opening for discharging concentrate from the flotation cell, the outlet opening having a dimension transverse to the direction of flow of concentrate through the outlet opening, and the flotation cell also including a flow measuring arrangement for measuring concentrate flow through the outlet opening, the flow measuring arrangement comprising:

an elongate sensor element mounted relative to said structure in a manner that allows movement of the sensor element relative to said structure under the influence of flow of concentrate through the outlet opening, the sensor element having a length dimension sufficient that the sensor element extends over substantially the entire transverse dimension of the outlet